

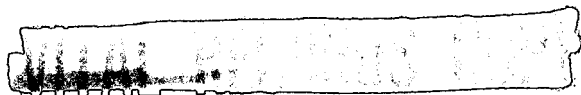


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PHOTOGRAPHIC INTELLIGENCE REPORT



CHINESE POWER PLANTS

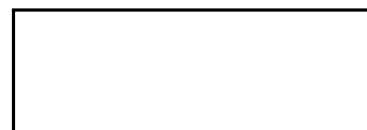
HUNAN PROVINCE



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Declass Review by NIMA / DOD



DATE JULY 1966

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CHINESE POWER PLANTS

HUNAN PROVINCE

- (A) Chu-chou Thermal Power Plant
- (B) Heng-yang Hydro Power Plant
- (C) Hsiang-hsiang Hydro Power Plant (Shui-fu-miao)
- (D) Tui-kou-chi Hydro Power Plant (Che-chi)

REQUIREMENT

C-RR5-83,218

CIA/IAD PROJECT

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CHU-CHOU THERMAL POWER PLANT

NPIC NUMBER - 17-T

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Chu-chou Thermal Power Plant is located in northwest Chu-chou on the eastern bank of the Hsiang-chiang (River) at coordinates 27 51 30N - 113 07 10E. The facility is rail-served, coal-operated and consists of extensive coal-storage and processing facilities, large sub-station with control house and four transformers, six oil-storage tanks and the usual storage/support buildings.

The boilerhouse has two sections of slightly different designs with a probable total of seven boiler units. The northern section (served by stack A) was apparently constructed for at least three boiler units, but has only two sets of dust-catchers installed, suggesting that two boiler units are operable. The southern boilerhouse section is not as high as the northern section and probably has smaller boiler units. The section is connected by five single, widely-spaced flues to masonry stack B and is equipped with five small dust-catchers, indicating five boiler units for a probable plant total of seven.

The generator hall is of one design and is linked to the sub-station by five sets of three-cable power leads. Four sets of leads connect with transformers; the fifth set appears to connect with the northern end of the control house.

There has been no change in plant facilities during the period

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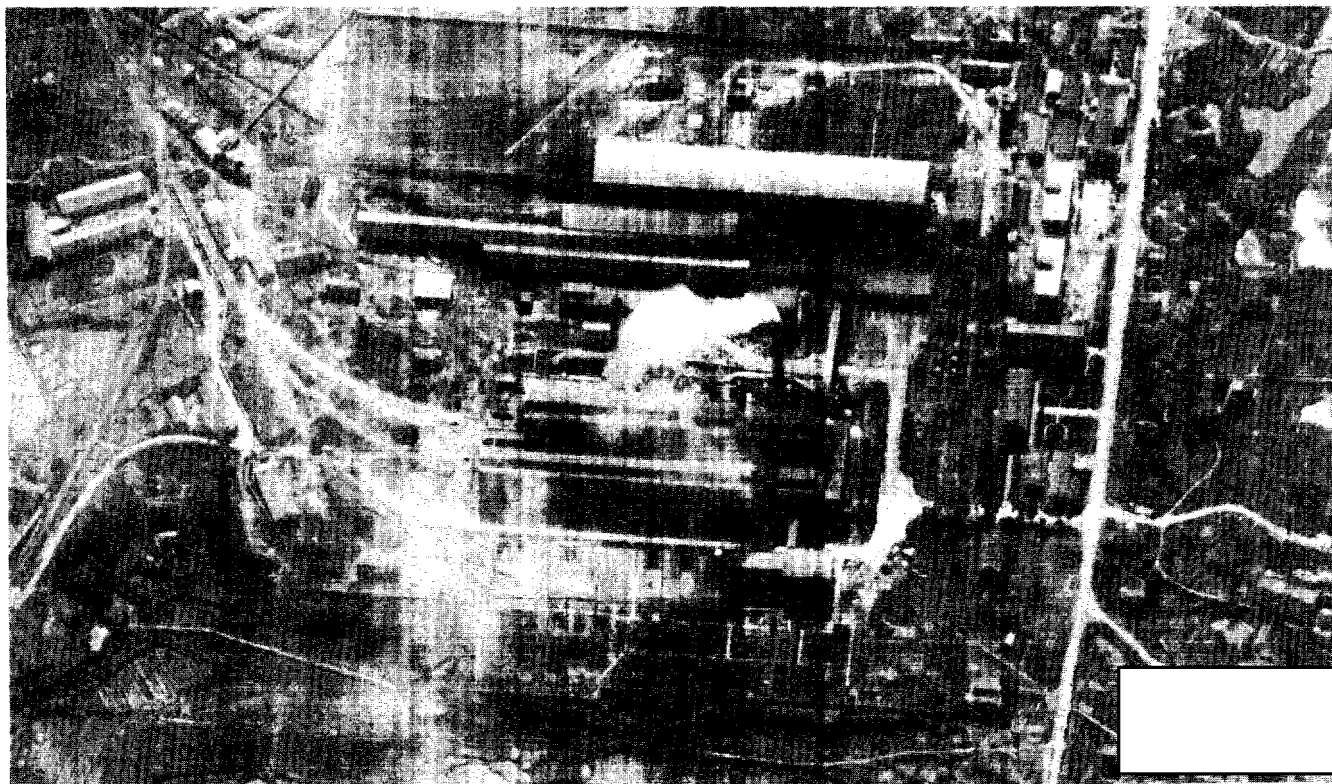
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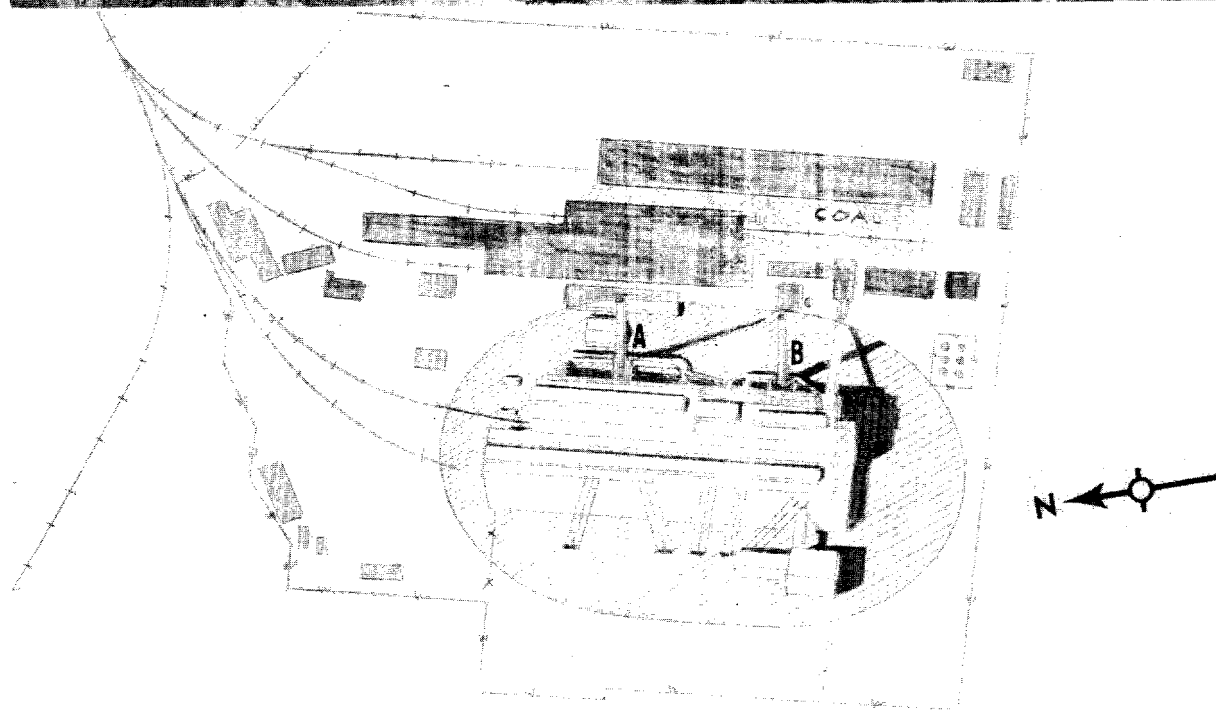
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FIGURE 2

CHU-CROU THERMAL POWER PLANT



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CHU-CHOU THERMAL POWER PLANT

	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Possible light smoke from stacks A and B.
	None	Moderate smoke from stack A.
	None	Light smoke from stack A.
	None	Poor quality coverage precluded analysis.
	None	Moderate smoke from stack A. Light smoke from stack B.

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CHU-CHOU THERMAL POWER PLANT

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Appears to be moderate smoke from stack A. Obliquity precludes further analysis.
	None	Moderate smoke from stack A. Light smoke from stack B.
	None	Moderate smoke from stack A.

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HENG-YANG HYDRO POWER PLANT

The Heng-yang Hydro Power Plant is located approximately 5 nm east of Heng-yang on Lei Shui (River) at coordinates 26 52 40N - 112 42 00E. The facility is of the consolidated, concrete, gravity type and includes a system of navigation locks, control house and sub-station.

The plant appears to be largely complete; a covered section is being constructed over the intake-gates adjacent to the generator hall. Eight of these gates were visible on earlier photography, which suggests that as many as eight turbo-generator units could be installed. No power leads could be detected between the generator hall and the sub-station located to the northeast.

The plant has never been observed in operation; however, a very slight flow of water was observed from the southwest end of the generator hall (see figure 3), but this does not appear to indicate that the plant was operable.

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The only instances of new construction occurred [redacted] [redacted] During this period, a control house and sub-station addition were completed, and construction of the covered bridge-crane was begun.

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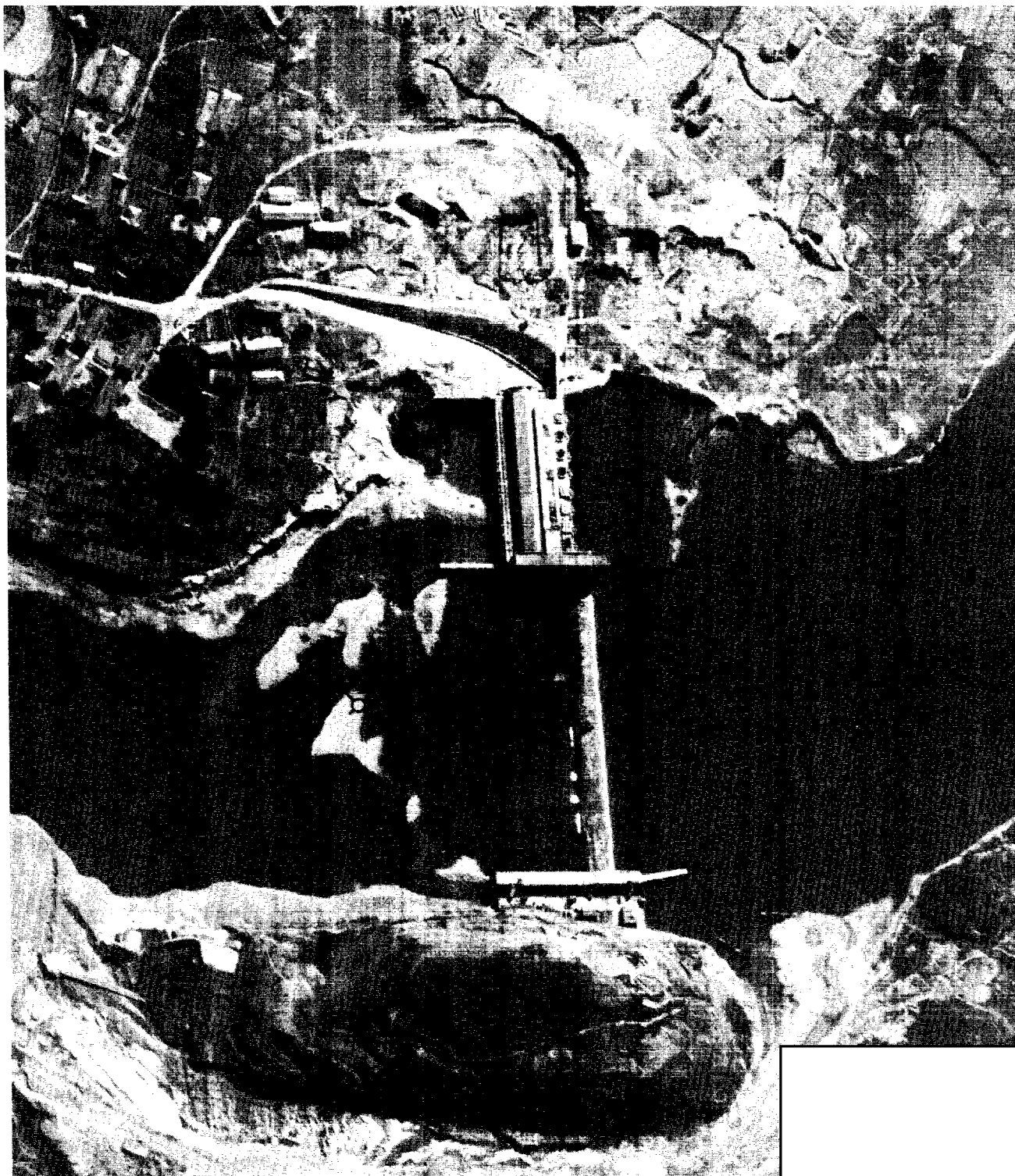
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FIGURE 3

HENG-YANG HYDRO POWER PLANT



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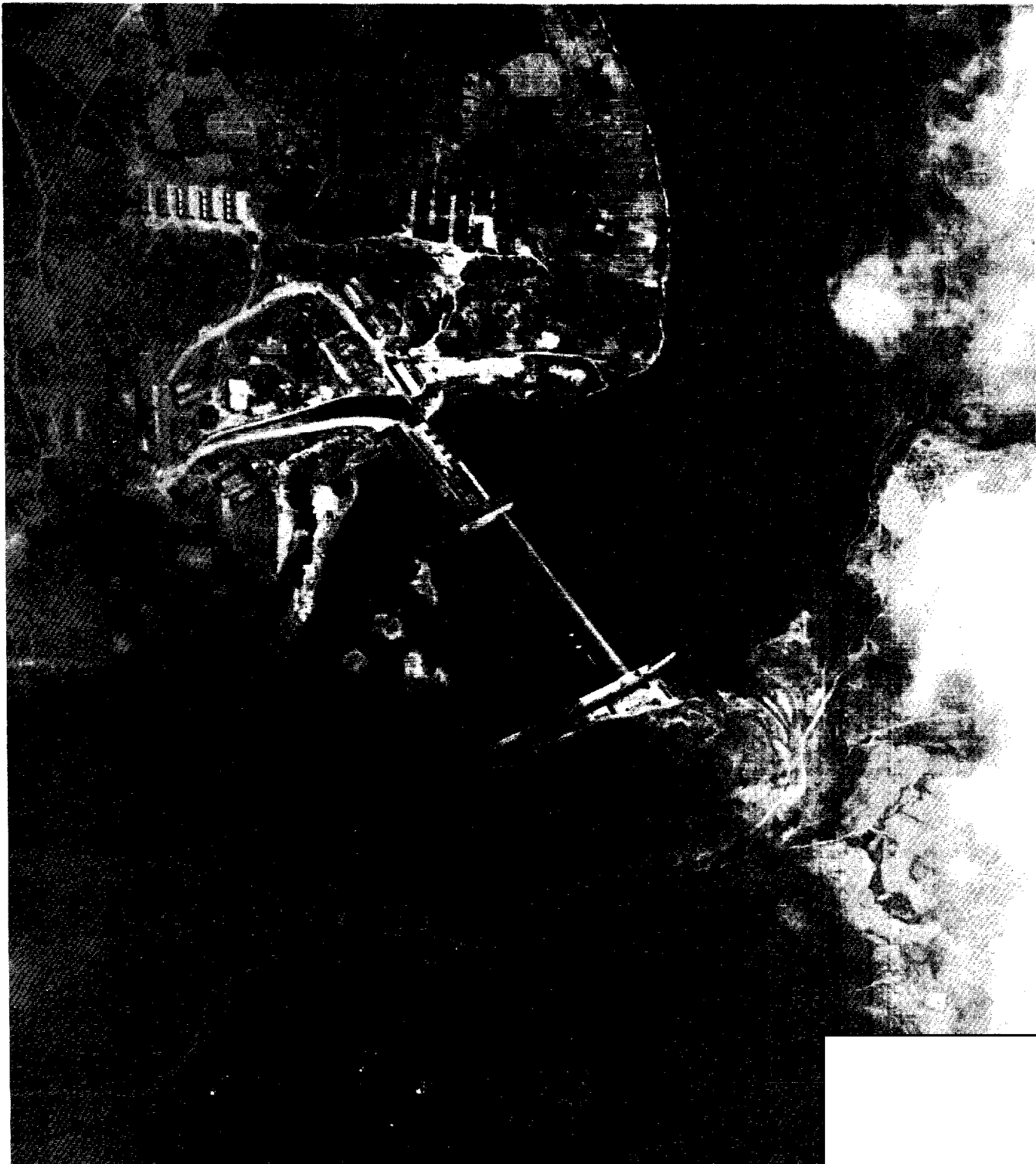
FIGURE 4

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HENG-YANG HYDRO POWER PLANT

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HSIANG-HSIANG HYDRO POWER PLANT (SHUI-FU-MIAO)

NPIC NUMBER - 33

The Hsiang-hsiang Hydro Power Plant (Shui-fu-miao) is located approximately 5.5 nm southeast of Ku shui on the Lien-shui (River) at coordinates 27 40 45N - 112 14 40E. The facility is of the concrete, consolidated type with an integrated spillway. A channel equipped with locks is located east of the plant, probably to handle passage of small boats and logs.

The dam contains four water intakes, indicating that the powerhouse is equipped with four turbo-generators. A small sub-station is probably located between the powerhouse and dam; however, available photography is either of poor quality or small scale and does not permit detection of transformers or power cables. Photography [] did reveal an "H" shaped transmission pole on a hill immediately above the powerhouse. The line could not be traced beyond that point.

The plant was covered [] but no turbulence or change was evident. The spillway was in operation []

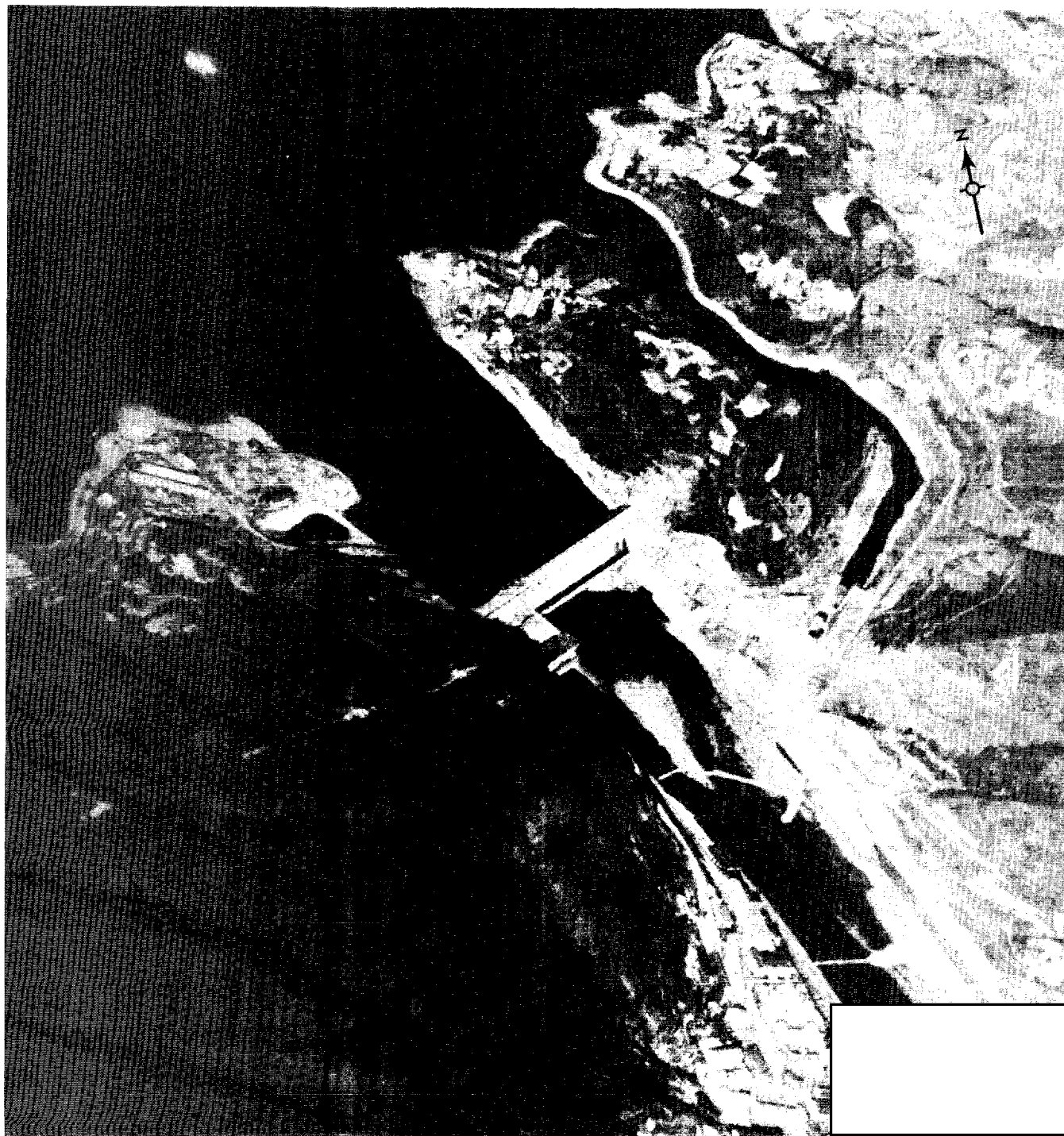
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HSIANG-HSIANG HYDRO POWER PLANT (SHUI-FU-MIAO)



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TUI-KOU-CHI HYDRO POWER PLANT (CHE-CHI)

NPIC NUMBER - 24

The Tui-kou-chi Hydro Power Plant (Che-chi) is located 30 nm northwest of Mei-cheng-chen (An-hua) on the Che-chi (River) at coordinates 28 19 20N - 111 07 35E. The facility consists of a concrete dam, integrated spillway, and separated powerhouse.

The dam appears to contain six water intakes (located at the east end) which supply water to the powerhouse. The six water intakes and the six sets of tailwater outlets observed at the powerhouse indicate that the plant is designed for six turbo-generator units. At least three transformers are located behind and at the east end of the powerhouse. The placement of these transformers suggests that they are installed two per turbo-generator unit. A second sub-station, under construction, is located east of the plant along with several support/storage buildings.

There has been no significant construction or apparent powerhouse turbulence during the period [redacted] when last observed.

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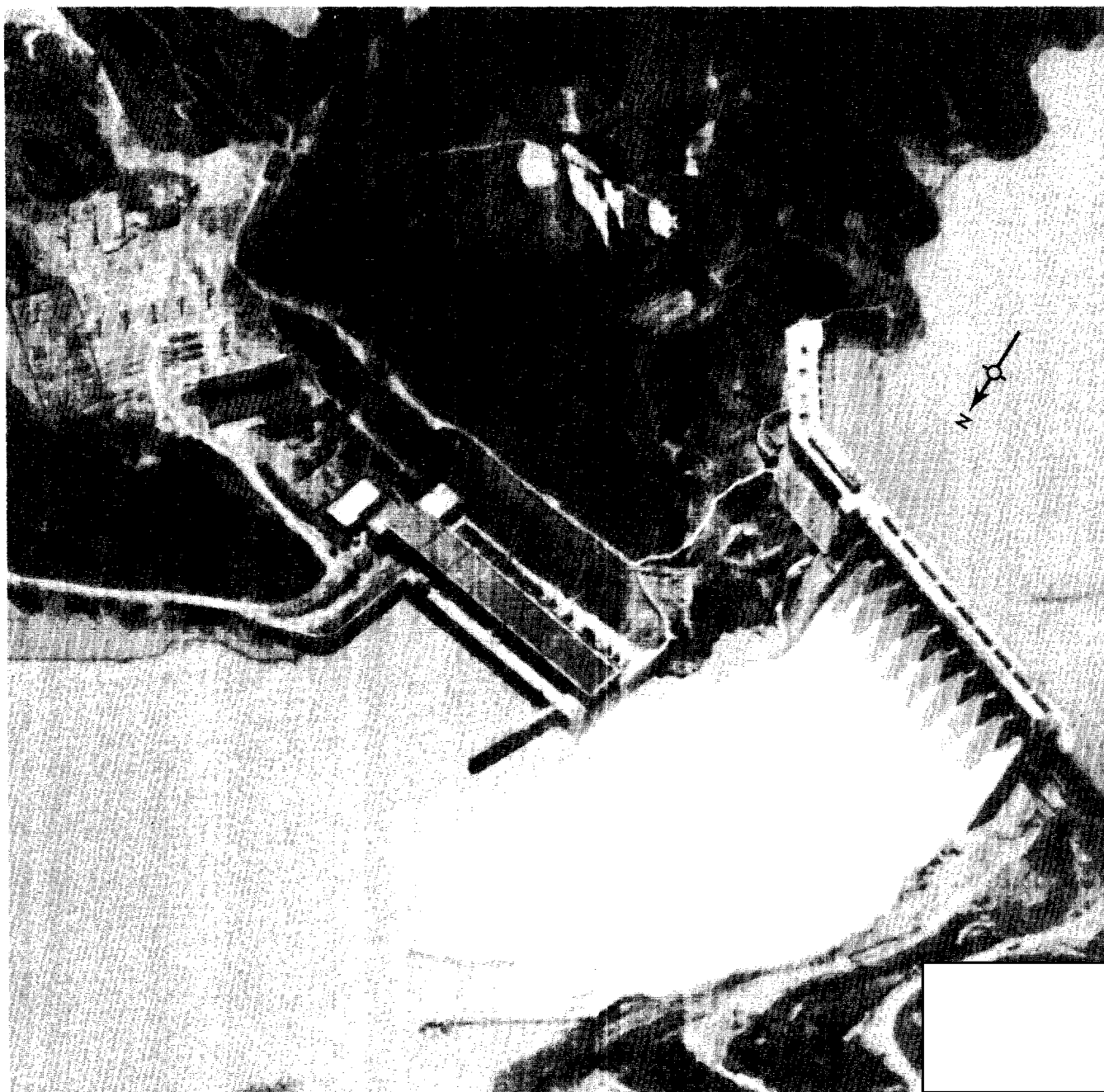
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FIGURE 7

TUI-KOU-CHI HYDRO POWER PLANT (CHE CHI)



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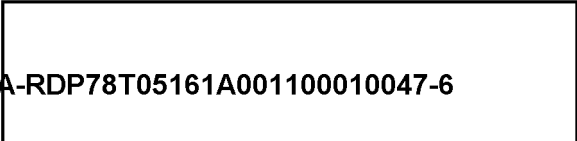
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TUI-KOU-CHI HYDRO POWER PLANT (CHE-CHI)

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION	
	None	No turbulence observed from powerhouse or spillway.	
	None	No turbulence from powerhouse; turbulence noted from one spillway outlet.	
	None	No turbulence from powerhouse; turbulence noted from one spillway outlet.	25X1
	None	No turbulence observed from spillways or powerhouse.	
	The sub-station east of the powerhouse may be expanding; there appears to be scarring along one side of the facility.	No turbulence from powerhouse; heavy turbulence from all spillway outlets.	

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TUI-KOU-CHI HYDRO POWER PLANT (CHE-CHI)

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	No turbulence from powerhouse; heavy turbulence from all spillway outlets.

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